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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,402	01/29/2004	Ming-Jiunn Jou	659944-100001	2872
7:	590 06/29/2005		EXAM	INER
JONES DAY			WOJCIECHOWICZ, EDWARD JOSEPH	
Suite 4600 555 W. Fifth St	treet		ART UNIT	PAPER NUMBER
Los Angeles, (Los Angeles, CA 90013-1025			
			DATE MAILED: 06/29/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

4							
	Application No.	Applicant(s)	T-				
Office Action Summan	10/767,402	JOU ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAIL INO DATE of the control of	Edward Wojciechowicz	2815					
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet will	n the correspondence addre	SS				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replif NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).		eply be timely filed (30) days will be considered timely. FHS from the mailing date of this commit ANDONED (35 U.S.C. § 133).	unication.				
Status							
1) Responsive to communication(s) filed on	*						
2a) ☐ This action is FINAL . 2b) ☑ This	s action is non-final.						
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.					
Disposition of Claims							
4) ⊠ Claim(s) <u>1-58</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-58</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers							
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	cepted or b) objected to be drawing(s) be held in abeyant ction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1					
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action of form PTO-	152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document 4 See the attached detailed Office action for a list 	ts have been received. ts have been received in A onty documents have been nu (PCT Rule 17.2(a)).	pplication No received in this National Sta	nge				
Attachment(s)		·					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10-22-04. 	Paper No(s	ummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-15 	52)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hosoda et al (6,738,402) in view of Lee et al (5,789,768). The reference to Hosoda teaches the main structural features of the invention. For example, as shown in FIG. 4, Hosoda forms a substrate(201), a first cladding layer (212), an active layer (213), a second cladding layer (214), a "cushion" layer (241) which has a high resistivity, and a contact layer (251).

Hosoda also teaches using the same materials as claimed by applicants, including an AlGaInP active layer that also may be comprised of a multiple quantum well structure (col. 8, l. 64).

While Hosoda does not explicitly describe a transparent conductive layer formed on the contact layer, Lee describes such a layer (e.g. abstract), and given that Hosoda is also a light emitting device, such an element would be typically included in the Hosoda structure as well. In addition, Lee also teaches the formation of a Schottky barrier with the transparent conductive layer as recited in claim 43. See the discussion by Lee at col. 5, I. 5-20. Note also the DBR layer (80) formed by Lee in FIG. 5B.

Taken together, these references teach all of the features of the claimed invention, and one skilled in the art would be motivated to combine these references in order to maximize the efficiency of the light emitting devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is 571-272-1739. The examiner can normally be reached on Monday through Thursday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward Wojciechowicz Primary Examiner Art Unit 2815

EW: ew